

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 348 B17
1. (Original) A database querying method, comprising:
- 2 obtaining a first data item from a database table of a database system in response
- 3 to a query request;
- 4 obtaining a second data item based on a value related to said first data item, said
- 5 value in an updated log file of said database system;
- 6 integrating said first and second data items into an integration result; and
- 7 returning said integration result to said query request.
- 1 2. (Original) The database querying method of claim 1,
- 2 wherein said second data item is obtained by translating said value according to a
- 3 predetermined translation rule.
- 1 3. (Original) A database querying system comprising:
- 2 a database access module for obtaining a first data item from a database table of a
- 3 database system in response to a query request;
- 4 a log extractor module for obtaining a second data item based on a value related
- 5 to said first data item, said value in an updated log file of said database system; and
- 6 an integrator module for integrating said first and second data items into an
- 7 integration result, said integration result related to a response to said query request.
- 1 4. (Original) The database querying system of claim 3 further comprising :
- 2 a translator module coupled with said log extractor module and with said
- 3 integrator module for modifying said second data item from said log extractor module according
- 4 to a predetermined translation rule, before said second data item is used by said integrator
- 5 module.

1 5. (Original) A database querying system, comprising:
2 a database processor for receiving a query request and returning a requested
3 record set in response to the query request; and
4 a database system comprising a database table and an updated log file;
5 wherein said database processor is operably disposed to:
6 retrieving a first item from said database table responsive to said query request;
7 retrieving a second item , comprising updated log data corresponding to said first
8 item, from said updated log file;
9 generating said requested record set, comprising said first item and said second
10 item; and
11 returning said requested record set to a query request origin.

11 6. (Original) The database querying system according to claim 5,
1 wherein the database processor comprises a translator for translating updated log
2 data, according to a predetermined translation rule, into translated log data and substituting said
3 translated log data for said updated log data in said second item.

11 7. (Original) A computer program product for use with a database system,
1 comprising:
2 a computer readable medium having program code embodied in said computer
3 readable medium, said program code comprising:
4 program code for obtaining a first data item from a database table of said database
5 system in response to a query request;
6 program code for obtaining a second data item based on a value related to said
7 first data item, said value in an updated log file of said database system;
8 program code for integrating said first and second data items into an integration
9 result; and
10 program code for returning said integration result to said query request.

1 8. (Original) A database question and answer method using one or more
2 databases, each database comprising a database table and an updated log file, said updated log
3 file comprising information associated with said database table, said method comprising:
4 receiving a query request from a user, said query request comprising a first data
5 item of said database table;
6 using said first data item, obtaining a second data item from said updated log file;
7 modifying said second data item to a third data item using a predetermined
8 business rule;
9 generating a virtual table comprising said first and third data items; and
10 returning to said user an answer based on said virtual table.

A (1 9. (Original) The database question and answer method of claim 8 wherein
2 said virtual table is discarded after said answer is returned to said user.

1 10. (Original) The database question and answer method of claim 8 wherein
2 said predetermined business rule comprises an accounting time period.

1 11. (Original) The database question and answer method of claim 10 wherein
2 the accounting time period is a fixed day in a month.

1 12. (Original) The database question and answer method of claim 8 wherein
2 said predetermined business rule comprises a base time period.

1 13. (Original) The database question and answer method of claim 8 wherein
2 said predetermined business rule comprises a selected national calendar format for the day,
3 month, and year.

1 14. (Original) The database question and answer method of claim 8, wherein
2 said selected national calendar format is selected from a group consisting of a Japanese Calendar
3 or a U.S. Calendar.

1 15. (Original) The database question and answer method of claim 8 wherein
2 said predetermined business rule comprises a table name.

1 16. (Original) The database question and answer method of claim 8 further
2 comprising:
3 when said query request is for a plurality of databases, dividing said query request
4 into a plurality of sub-requests, each sub-request directed to a database of said plurality of
5 databases;
6 receiving a record set of a plurality of record sets in response to said sub-request;
7 and
8 integrating said plurality of record sets into a result for returning to said user.

1 17. (Original) The database question and answer method of claim 8 wherein
2 said second data item comprises a timestamp for said first data item.

1 18. (Original) The database question and answer method of claim 8 wherein
2 said virtual table is a view table.

1 19. (Original) The database question and answer method of claim 8 wherein
2 said request is based on a search of said information in said updated log file.

1 20. (Original) A system for responding to a user query to a data base
2 management systems (DBMS), wherein said DBMS comprises a database table and an updated
3 log file, said system comprising:

4 a database access controller for retrieving a data item from said database table
5 responsive to said user query;

6 a translation module coupled with said database access controller for retrieving an
7 attribute related to said data item from said updated log file and for translating said attribute into
8 a modified attribute according to a translation rule; and

9 an integrator module for integrating said data item and said modified attribute into
10 a virtual table and returning to said user query an answer based on said virtual table.

1 21. (Original) The system of claim 20 wherein said attribute is a timestamp.

1 22. (Original) The system of claim 20 wherein said translation rule comprises
2 a base time period.

1 23. (Original) The system of claim 20 wherein said translation rule comprises
2 a predetermined country's calendar format.

1 24. (Original) A system for responding to a user query to a data base
2 management systems (DBMS), wherein said DBMS comprises a database table and an updated
3 log file, said system comprising:

4 an access means for retrieving a data item from said database table responsive to
5 said user query;

6 an extraction means for retrieving an attribute related to said data item from said
7 updated log file;

8 a translation means for translating said attribute into a modified attribute
9 according to a translation rule; and

10 a virtual table comprising said data item and said modified attribute wherein a
11 response to said user query is based on said virtual table.

1 25. (Original) A computer readable data transmission medium containing a
2 data structure for responding to a user query, comprising:

3 a first part, comprising a database table entry, responsive to said user query; and

4 a second part, comprising, a timestamp modified by a translation rule, wherein
5 said timestamp is a time value in an updated log file associated with said database table entry.

1 26. (Original) The computer readable data transmission medium of claim 25
2 wherein said data structure is a virtual table.

1 27. (Original) A computer readable medium for storing code for querying a
2 database querying, comprising:
3 code for obtaining a first data item from a database table of a database system in
4 response to a query request;
5 code for obtaining a second data item based on a value related to said first data
6 item, said value in an updated log file of said database system;
7 code for integrating said first and second data items into an integration result; and
8 code for returning said integration result to said query request.

1 28. (Original) The computer readable medium of claim 27, further
2 comprising code for obtaining said second data item by translating said value according to a
3 predetermined translation rule.

1 29. (Original) A database querying system comprising:
2 an access means for obtaining a first data item from a database table of a database
3 system in response to a query request;
4 an extractor means for obtaining a second data item based on a value related to
5 said first data item, said value in an updated log file of said database system; and
6 an integrator means for integrating said first and second data items into an
7 integration result, said integration result related to a response to said query request.

1 30. (Original) The database querying system of claim 29 further comprising :
2 a translator means for modifying said second data item from said log extractor
3 module according to a predetermined translation rule, before said second data item is used by
4 said integrator module.